

Butler, Douglas

PLUS 4/18/04

From: PLUS  
Sent: Monday, April 05, 2004 11:55 AM  
To: Butler, Douglas  
Subject: PLUS Results for 10677888

Here are the PLUS search results for 10677888.

This search was prepared by the staff of the Scientific and Technical Information Center, SIRA. If you have questions or comments about this search, please reply via email to [PLUS@uspto.gov](mailto:PLUS@uspto.gov).



10677888\_QUAL.txt



10677888\_LIST.txt



10677888\_WEST.txt



10677888\_EAST.txt



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10677888\_CLS.txt



10677888\_CLSTITLES.txt



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## 10677888\_LIST

PLUS Search Results for S/N 10677888, Searched April 05, 2004

The Patent Linguistics Utility System (PLUS) is a USPTO automated search system for U.S. Patents from 1971 to the present. PLUS is a query-by-example search system which produces a list of patents that are most closely related linguistically to the application searched. This search was prepared by the staff of the Scientific and Technical Information Center, SIRA.

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10677888\_CLS  
Most Frequently Occurring Classifications of Patents Returned  
From A Search of 10677888 on April 05, 2004

Original Classifications

|    |            |
|----|------------|
| 17 | 123/321    |
| 7  | 123/322    |
| 4  | 123/320    |
| 4  | 188/158    |
| 4  | 188/271    |
| 4  | 192/216    |
| 4  | 303/20     |
| 4  | 303/3      |
| 3  | 188/296    |
| 3  | 477/92     |
| 2  | 73/118.1   |
| 2  | 73/862.191 |
| 2  | 74/336R    |
| 2  | 91/420     |
| 2  | 123/323    |
| 2  | 180/169    |
| 2  | 181/256    |
| 2  | 188/154    |
| 2  | 188/267    |
| 2  | 188/62     |
| 2  | 303/113.2  |
| 2  | 303/152    |
| 2  | 303/7      |
| 2  | 310/77     |
| 2  | 701/70     |

Cross-Reference Classifications

|    |           |
|----|-----------|
| 10 | 123/90.16 |
| 6  | 123/323   |
| 6  | 188/291   |
| 6  | 477/92    |
| 5  | 123/90.12 |
| 5  | 188/161   |
| 5  | 192/221   |
| 5  | 192/222   |
| 5  | 310/105   |
| 4  | 123/322   |
| 4  | 188/158   |
| 4  | 188/267   |
| 4  | 188/290   |
| 4  | 188/296   |
| 4  | 303/15    |
| 4  | 310/93    |
| 3  | 123/321   |
| 3  | 180/170   |
| 3  | 188/164   |
| 3  | 188/294   |
| 3  | 192/12A   |
| 3  | 192/216   |
| 3  | 303/3     |
| 3  | 701/51    |
| 2  | 60/460    |
| 2  | 60/493    |
| 2  | 91/421    |

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2 123/198DB  
 2 123/568.14  
 2 180/197  
 2 180/308  
 2 181/272  
 2 188/264F  
 2 188/273  
 2 192/219  
 2 303/125  
 2 303/155  
 2 303/20  
 2 303/7  
 2 310/76  
 2 475/113  
 2 477/110  
 2 477/185  
 2 477/71  
 2 477/86  
 2 701/53  
 2 701/87

Combined Classifications

20 123/321  
 11 123/322  
 11 123/90.16  
 9 477/92  
 8 123/323  
 8 188/158  
 7 188/291  
 7 188/296  
 7 192/216  
 7 303/3  
 6 188/267  
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 5 123/320  
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 4 701/51  
 3 123/568.14  
 3 180/170  
 3 188/294  
 3 192/12A  
 3 303/113.2  
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2 73/862.191  
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2 188/71.6  
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2 192/3.3  
2 192/3.31  
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2 303/13  
2 303/155  
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2 310/77  
2 477/110  
2 477/185  
2 477/71  
2 477/86  
2 701/33  
2 701/48  
2 701/53  
2 701/87

## 10677888\_CLSTITLES

Titles of Most Frequently Occurring Classifications of Patents Returned  
From A Search of 10677888 on April 05, 2004

- 20 123/321 (17 OR, 3 XR)  
     Class 123 : INTERNAL-COMBUSTION ENGINES  
     123/319 ENGINE SPEED REGULATOR  
     123/320 .Responsive to deceleration mode (e.g., engine  
                   acting as a brake)  
     123/321 ..Valve timing altering means (e.g., axially  
                   sliding cam shaft)
- 11 123/322 (7 OR, 4 XR)  
     Class 123 : INTERNAL-COMBUSTION ENGINES  
     123/319 ENGINE SPEED REGULATOR  
     123/320 .Responsive to deceleration mode (e.g., engine  
                   acting as a brake)  
     123/321 ..Valve timing altering means (e.g., axially  
                   sliding cam shaft)  
     123/322 ...Electrical means adapted to alter valve  
                   timing
- 11 123/90.16 (1 OR, 10 XR)  
     Class 123 : INTERNAL-COMBUSTION ENGINES  
     123/90.1 POPPET VALVE OPERATING MECHANISM  
     123/90.15 .With means for varying timing  
     123/90.16 ..Cam-to-valve relationship
- 9 477/92 (3 OR, 6 XR)  
     Class 477 : INTERRELATED POWER DELIVERY CONTROLS,  
                   INCLUDING ENGINE CONTROL  
     477/34 TRANSMISSION CONTROL  
     477/92 .With brake control
- 8 123/323 (2 OR, 6 XR)  
     Class 123 : INTERNAL-COMBUSTION ENGINES  
     123/319 ENGINE SPEED REGULATOR  
     123/320 .Responsive to deceleration mode (e.g., engine  
                   acting as a brake)  
     123/323 ..Exhaust throttling or blocking
- 8 188/158 (4 OR, 4 XR)  
     Class 188 : BRAKES  
     188/381 FRICTIONAL VIBRATION DAMPER  
     188/158 .Electric
- 7 188/291 (1 OR, 6 XR)  
     Class 188 : BRAKES  
     188/266 INTERNAL-RESISTANCE MOTION RETARDER  
     188/290 .Using a rotary-type fluid damper  
     188/291 ..Including clutch
- 7 188/296 (3 OR, 4 XR)  
     Class 188 : BRAKES  
     188/266 INTERNAL-RESISTANCE MOTION RETARDER  
     188/290 .Using a rotary-type fluid damper  
     188/296 ..Driving radial vanes which cause toroidal  
                   flow of brake fluid

## 10677888\_CLSTITLES

- 7 192/216 (4 OR, 3 XR)  
     Class 192 : CLUTCHES AND POWER-STOP CONTROL  
     192/215 TRANSMISSION AND BRAKE  
     192/216 .Internal resistance brake
- 7 303/3 (4 OR, 3 XR)  
     Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS  
     303/2 MULTIPLE SYSTEMS  
     303/3 .Fluid pressure and electric
- 6 188/267 (2 OR, 4 XR)  
     Class 188 : BRAKES  
     188/266 INTERNAL-RESISTANCE MOTION RETARDER  
     188/267 .Using magnetic flux
- 6 303/20 (4 OR, 2 XR)  
     Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS  
     303/20 ELECTRIC CONTROL
- 5 123/320 (4 OR, 1 XR)  
     Class 123 : INTERNAL-COMBUSTION ENGINES  
     123/319 ENGINE SPEED REGULATOR  
     123/320 .Responsive to deceleration mode (e.g., engine acting as a brake)
- 5 123/90.12 (0 OR, 5 XR)  
     Class 123 : INTERNAL-COMBUSTION ENGINES  
     123/90.1 POPPET VALVE OPERATING MECHANISM  
     123/90.12 .Hydraulic system
- 5 188/161 (0 OR, 5 XR)  
     Class 188 : BRAKES  
     188/381 FRICTIONAL VIBRATION DAMPER  
     188/158 .Electric  
     188/161 ..Electromagnet
- 5 188/290 (1 OR, 4 XR)  
     Class 188 : BRAKES  
     188/266 INTERNAL-RESISTANCE MOTION RETARDER  
     188/290 .Using a rotary-type fluid damper
- 5 192/221 (0 OR, 5 XR)  
     Class 192 : CLUTCHES AND POWER-STOP CONTROL  
     192/215 TRANSMISSION AND BRAKE  
     192/218 .Motor vehicle  
     192/221 ..Fluid operated
- 5 192/222 (0 OR, 5 XR)  
     Class 192 : CLUTCHES AND POWER-STOP CONTROL  
     192/215 TRANSMISSION AND BRAKE  
     192/218 .Motor vehicle  
     192/222 ..Electromagnetic
- 5 310/105 (0 OR, 5 XR)  
     Class 310 : ELECTRICAL GENERATOR OR MOTOR STRUCTURE  
     310/10 DYNAMOELECTRIC  
     310/40R .Rotary  
     310/92 ..Torque-transmitting clutches or brakes  
     310/103 ...Magnetic field type

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- 310/105 .....Induced or eddy current type
- 5 310/93 (1 OR, 4 XR)  
     Class 310 : ELECTRICAL GENERATOR OR MOTOR STRUCTURE  
     310/10 DYNAMOELECTRIC  
     310/40R .Rotary  
     310/92 ..Torque-transmitting clutches or brakes  
     310/93 ...Brake type
- 4 188/164 (1 OR, 3 XR)  
     Class 188 : BRAKES  
     188/381 FRICTIONAL VIBRATION DAMPER  
     188/158 .Electric  
     188/161 ..Electromagnet  
     188/164 ...Magnetic circuit
- 4 188/271 (4 OR, 0 XR)  
     Class 188 : BRAKES  
     188/266 INTERNAL-RESISTANCE MOTION RETARDER  
     188/271 .Combined with surface-friction brake
- 4 303/15 (0 OR, 4 XR)  
     Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS  
     303/13 MULTIPLE CONTROL  
     303/15 .Fluid and electric
- 4 303/7 (2 OR, 2 XR)  
     Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS  
     303/5 MULTIPLE FLUID-RECEIVING DEVICES  
     303/6.01 .Multiple motors  
     303/7 ..Sectional train
- 4 701/51 (1 OR, 3 XR)  
     Class 701 : DATA PROCESSING: VEHICLES, NAVIGATION, AND  
                 RELATIVE LOCATION  
     701/1 VEHICLE CONTROL, GUIDANCE, OPERATION, OR  
                 INDICATION  
     701/51 .Transmission control
- 3 123/568.14 (1 OR, 2 XR)  
     Class 123 : INTERNAL-COMBUSTION ENGINES  
     123/434 CHARGE FORMING DEVICE (E.G., POLLUTION CONTROL)
- 123/568.11 .Exhaust gas used with the combustible mixture  
                 (e.g., emission control Exhaust Gas Recirculation (EGR)  
                 valve)  
     123/568.14 ..Internal exhaust gas recirculation (e.g.,  
                 exhaust gas retained in the combustion chamber)
- 3 180/170 (0 OR, 3 XR)  
     Class 180 : MOTOR VEHICLES  
     180/170 WITH MEANS RESPONSIVE TO SPEED OF VEHICLE FOR  
                 MAINTAINING SPEED AT, OR PREVENTING IT FROM EXCEEDING, A  
                 PARTICULAR VALUE
- 3 188/294 (0 OR, 3 XR)  
     Class 188 : BRAKES  
     188/266 INTERNAL-RESISTANCE MOTION RETARDER  
     188/290 .Using a rotary-type fluid damper

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- 188/293           ...Driving relatively moving element which  
                  causes flow of brake fluid
- 188/294           ...With means for regulating movement of  
                  element
- 3   192/12A           (0 OR, 3 XR)  
      Class   192 : CLUTCHES AND POWER-STOP CONTROL  
      192/12R       CLUTCH AND BRAKE  
      192/12A       .Internal resistance
- 3   303/113.2       (2 OR, 1 XR)  
      Class   303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS  
      303/121       SPEED-CONTROLLED  
      303/113.1     ..Having a valve system responsive to a wheel  
                      lock signal  
      303/113.2     ..With traction control
- 3   303/152       (2 OR, 1 XR)  
      Class   303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS  
      303/121       SPEED-CONTROLLED  
      303/152       ..Regenerative brakes
- 3   475/113       (1 OR, 2 XR)  
      Class   475 : PLANETARY GEAR TRANSMISSION SYSTEMS OR  
                      COMPONENTS  
      475/31        FLUID DRIVE OR CONTROL OF PLANETARY GEARING  
      475/91        ..Fluid resistance inhibits relative rotation  
      475/113       ..Impeller-turbine type fluid unit used as  
                      brake
- 3   701/70       (2 OR, 1 XR)  
      Class   701 : DATA PROCESSING: VEHICLES, NAVIGATION, AND  
                      RELATIVE LOCATION  
      701/1        VEHICLE CONTROL, GUIDANCE, OPERATION, OR  
                      INDICATION  
      701/70        ..Indication or control of braking,  
                      acceleration, or deceleration
- 2   60/460       (0 OR, 2 XR)  
      Class   060 : POWER PLANTS  
      60/325       PRESSURE FLUID SOURCE AND MOTOR  
      60/459       ..Condition responsive control of motive fluid  
                      flow  
      60/460        ..Holding or braking valve in motor exhaust  
                      line controlled by pressure in motorfeed line
- 2   60/493       (0 OR, 2 XR)  
      Class   060 : POWER PLANTS  
      60/325       PRESSURE FLUID SOURCE AND MOTOR  
      60/493       ..Valve means reverses flow from pump to  
                      reversible rotary motor
- 2   60/599       (1 OR, 1 XR)  
      Class   060 : POWER PLANTS  
      60/597       FLUID MOTOR MEANS DRIVEN BY WASTE HEAT OR BY  
                      EXHAUST ENERGY FROM INTERNAL COMBUSTION ENGINE  
      60/598        ..With supercharging means for engine  
      60/599        ..With means to change temperature of  
                      supercharged flow

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- 2 73/118.1 (2 OR, 0 XR)
  - Class 073 : MEASURING AND TESTING
  - 73/116 MOTOR AND ENGINE TESTING
  - 73/118.1 .Testing auxiliary unit
  
- 2 73/862.191 (2 OR, 0 XR)
  - Class 073 : MEASURING AND TESTING
  - 73/862 DYNAMOMETERS
  - 73/862.08 .Responsive to torque
  - 73/862.191 ..During transmission to an external load
  
- 2 74/336R (2 OR, 0 XR)
  - Class 074 : MACHINE ELEMENT OR MECHANISM
  - 74/640 GEARING
  - 74/325 .Interchangeably locked
  - 74/333 ..Combined gear and clutch
  - 74/334 ...Preselector
  - 74/336R ....Speed responsive
  
- 2 91/420 (2 OR, 0 XR)
  - Class 091 : MOTORS: EXPANSIBLE CHAMBER TYPE
  - 91/418 WITH MOTIVE FLUID VALVE
  - 91/420 .Contracting chamber exhaust valve controlled  
by expanding chamber pressure or flow
  
- 2 91/421 (0 OR, 2 XR)
  - Class 091 : MOTORS: EXPANSIBLE CHAMBER TYPE
  - 91/418 WITH MOTIVE FLUID VALVE
  - 91/421 .Expanding chamber inlet controlled by  
contracting chamber pressure or flow
  
- 2 123/198DB (0 OR, 2 XR)
  - Class 123 : INTERNAL-COMBUSTION ENGINES
  - 123/198R ACCESSORIES
  - 123/198DB .Fuel cut-off
  
- 2 180/169 (2 OR, 0 XR)
  - Class 180 : MOTOR VEHICLES
  - 180/167 WITH MEANS FOR CONTROLLING OPERATION RESPONSIVE  
TO ELECTROMAGNETIC RADIATION, MAGNETIC FORCE, OR SOUND  
WAVES RECEIVED FROM SOURCE, OR REFLECTED FROM OBJECT OR  
SURFACE, LOCATED APART FROM VEHICLE
  - 180/169 .Radiation, force, or waves reflected from  
external object or surface
  
- 2 180/197 (0 OR, 2 XR)
  - Class 180 : MOTOR VEHICLES
  - 180/197 WITH MEANS FOR DETECTING WHEEL SLIP DURING  
VEHICLE ACCELERATION AND CONTROLLING IT BY REDUCING  
APPLICATION OF POWER TO WHEEL
  
- 2 180/308 (0 OR, 2 XR)
  - Class 180 : MOTOR VEHICLES
  - 180/54.1 POWER
  - 180/305 .Including traction motor of kind driven by  
noncompressible fluid received under pressure from a pum

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- 180/308      ..Having separate motor for each driven,  
                 surface-engaging member
- 2 181/256      (2 OR, 0 XR)  
Class 181 : ACOUSTICS  
181/175      SOUND-MODIFYING MEANS  
181/212      .Muffler, fluid conducting type  
181/256      ..With sound absorbing material
- 2 181/272      (0 OR, 2 XR)  
Class 181 : ACOUSTICS  
181/175      SOUND-MODIFYING MEANS  
181/212      .Muffler, fluid conducting type  
181/264      ..With baffle or baffle structure  
181/269      ...Expansion chamber type  
181/272      ....Plural chambers
- 2 188/154      (2 OR, 0 XR)  
Class 188 : BRAKES  
188/381      FRICTIONAL VIBRATION DAMPER  
188/151R      .Fluid pressure  
188/154      ..Exhaust of propelling motor
- 2 188/264F      (0 OR, 2 XR)  
Class 188 : BRAKES  
188/381      FRICTIONAL VIBRATION DAMPER  
188/264R      .Cooling and lubricating  
188/264F      ..Operating fluid cooling
- 2 188/273      (0 OR, 2 XR)  
Class 188 : BRAKES  
188/266      INTERNAL-RESISTANCE MOTION RETARDER  
188/272      .Combined with mechanism retarded by brake  
188/273      ..Restricting exhaust from engine
- 2 188/295      (1 OR, 1 XR)  
Class 188 : BRAKES  
188/266      INTERNAL-RESISTANCE MOTION RETARDER  
188/290      .Using a rotary-type fluid damper  
188/293      ..Driving relatively moving element which  
                 causes flow of brake fluid  
188/295      ...Comprising rectilinearly reciprocating  
                 piston
- 2 188/62      (2 OR, 0 XR)  
Class 188 : BRAKES  
188/2R      VEHICLE  
188/33      .Railway  
188/62      ..On track
- 2 188/71.6      (1 OR, 1 XR)  
Class 188 : BRAKES  
188/67      ROD  
188/71.1      .Axially movable brake element or housing  
                 therefor  
188/71.6      ..With means for cooling brake
- 2 192/219      (0 OR, 2 XR)  
Class 192 : CLUTCHES AND POWER-STOP CONTROL

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- 192/215 TRANSMISSION AND BRAKE
- 192/218 .Motor vehicle
- 192/219 ..Transmission control affects brake
  
- 2 192/3.3 (1 OR, 1 XR)
  - Class 192 : CLUTCHES AND POWER-STOP CONTROL
  - 192/3.21 VORTEX-FLOW DRIVE AND CLUTCH
  - 192/3.28 .Including drive-lockup clutch
  - 192/3.29 ..Having fluid-pressure operator
  - 192/3.3 ...With auxiliary source of pressure
  
- 2 192/3.31 (1 OR, 1 XR)
  - Class 192 : CLUTCHES AND POWER-STOP CONTROL
  - 192/3.21 VORTEX-FLOW DRIVE AND CLUTCH
  - 192/3.28 .Including drive-lockup clutch
  - 192/3.31 ..Having speed-responsive operator
  
- 2 303/125 (0 OR, 2 XR)
  - Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
  - 303/121 SPEED-CONTROLLED
  - 303/125 .Automatic braking including speed governor or hydraulic retarder
  
- 2 303/13 (1 OR, 1 XR)
  - Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
  - 303/13 MULTIPLE CONTROL
  
- 2 303/155 (0 OR, 2 XR)
  - Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
  - 303/121 SPEED-CONTROLLED
  - 303/155 .Braking pressure demand or braking force desire
  
- 2 310/76 (0 OR, 2 XR)
  - Class 310 : ELECTRICAL GENERATOR OR MOTOR STRUCTURE
  - 310/10 DYNAMOELECTRIC
  - 310/40R .Rotary
  - 310/66 ..With other elements
  - 310/75R ...Drive mechanism
  - 310/76 ....Brake and clutch
  
- 2 310/77 (2 OR, 0 XR)
  - Class 310 : ELECTRICAL GENERATOR OR MOTOR STRUCTURE
  - 310/10 DYNAMOELECTRIC
  - 310/40R .Rotary
  - 310/66 ..With other elements
  - 310/75R ...Drive mechanism
  - 310/77 ....Brake
  
- 2 477/110 (0 OR, 2 XR)
  - Class 477 : INTERRELATED POWER DELIVERY CONTROLS, INCLUDING ENGINE CONTROL
  - 477/34 TRANSMISSION CONTROL
  - 477/107 .Engine controlled by transmission
  - 477/110 ..Responsive to transmission output condition
  
- 2 477/185 (0 OR, 2 XR)
  - Class 477 : INTERRELATED POWER DELIVERY CONTROLS,

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INCLUDING ENGINE CONTROL

477/182 BRAKE CONTROL

477/183 .Sensed condition responsive control of engine  
of brake

477/184 ..Brake

477/185 ...And engine

2 477/71 (0 OR, 2 XR)

Class 477 : INTERRELATED POWER DELIVERY CONTROLS,  
INCLUDING ENGINE CONTROL

477/34 TRANSMISSION CONTROL

477/70 .With clutch control

477/71 ..And brake control

2 477/86 (0 OR, 2 XR)

Class 477 : INTERRELATED POWER DELIVERY CONTROLS,  
INCLUDING ENGINE CONTROL

477/34 TRANSMISSION CONTROL

477/70 .With clutch control

477/86 ..Clutch controlled

2 701/33 (1 OR, 1 XR)

Class 701 : DATA PROCESSING: VEHICLES, NAVIGATION, AND  
RELATIVE LOCATION

701/1 VEHICLE CONTROL, GUIDANCE, OPERATION, OR  
INDICATION

701/29 .Vehicle diagnosis or maintenance indication

701/33 ..Plural processors or external processor

2 701/48 (1 OR, 1 XR)

Class 701 : DATA PROCESSING: VEHICLES, NAVIGATION, AND  
RELATIVE LOCATION

701/1 VEHICLE CONTROL, GUIDANCE, OPERATION, OR  
INDICATION

701/36 .Vehicle subsystem or accessory control

701/48 ..Cooperative or multiple control (e.g.,  
suspension and braking)

2 701/53 (0 OR, 2 XR)

Class 701 : DATA PROCESSING: VEHICLES, NAVIGATION, AND  
RELATIVE LOCATION

701/1 VEHICLE CONTROL, GUIDANCE, OPERATION, OR  
INDICATION

701/51 .Transmission control

701/53 ..And other vehicle control

2 701/87 (0 OR, 2 XR)

Class 701 : DATA PROCESSING: VEHICLES, NAVIGATION, AND  
RELATIVE LOCATION

701/1 VEHICLE CONTROL, GUIDANCE, OPERATION, OR  
INDICATION

701/70 .Indication or control of braking,  
acceleration, or deceleration

701/82 ..Antispin, traction control, or drive slip  
control

701/87 ...Control of transmission torque